

FEATURES

| Surface Mounting Design 5.0*5.0*7.5mm

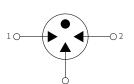
High Current Handling Capability 5,000A @ 8/20 μs

Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1





Schematic Symbol

APPLICATION INFORMATION

| Communication equipment.

Repeaters, Modems

| Telephone Interface,Line cards.

Data communication equipment.

AGENCY APPROVALS

lcon	Solderability		
RoHS	Compliance with 2011/65/EU		
HF	Compliance with IEC61249-2-21:2003		
₽b	Mean lead free		
<i>1</i> R 。	UL Certificated E505857		

PRODUCT CHARACTERISTICS

Lead Material	Body Material	Terminal Finish
Copper or Fe-Ni alloy	Ceramics	100% Matte-Tin Plated



ELECTRICAL PARAMETER

Parameter	Symbol	Limit	Unit
DC Blocking Voltage 1)	100V/s	376-564	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1050	
impuise Spark-over voltage	At 1kV/μs	Typical values of distribution ≤1000	V
Impulse Discharge Current 2)	8/20µs	5,000	А
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 1.5	pF
Operating And Storage Temperature		-40-125	°C

¹⁾ In ionized mode

ENVIRONMENTAL RELIABILITY CHARACTERISTICS

Testing items	Technical standards		
High Temperature Storage Test	Temperature: 85°C; Time:2H		
Low Temperature Storage Test Temperature: -40°C; Time:2H			
Vibration	Frequency: 10-500Hz ; Amplitude: 0.15mm ; Time: 45min		
Resistance of soldering heat	Temperature: 260±5°C; Time of dip soldering: 10s, 1time		

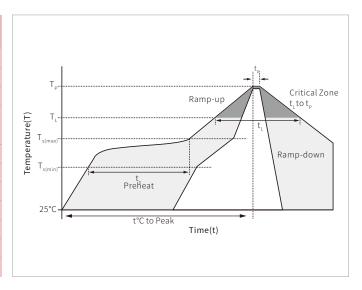
NOTE:Up-screen program can be specified by customer's request via contacting Semiware service

²⁾ Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

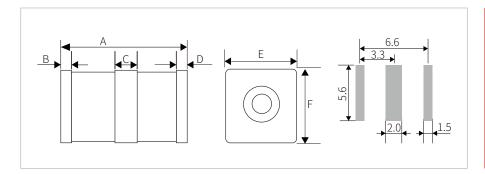


REFLOW PROFILE

	Reflow Condition	Lead-free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60 – 180 secs	
Average ramp up rate (Liquidus)Temp (T_L) to peak $T_c(max)$ to $T_c - Ramp - up$ Rate		3°C/second max	
Deflace	Temperature (T _L) (Liquidus)	217°C	
Reflow	Time(min to max)(t _s)	60 – 150 seconds	
Peak Temperature (T _P)		260 °C	
Time within 5°C of actual peak Temperature (tp)		10-30 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T,)		8 minutes max.	
Do not exceed		260°C	



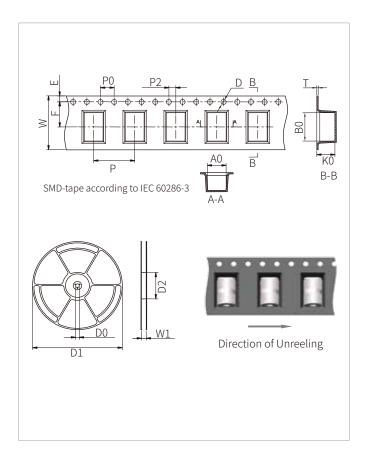
DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	Outline Dimensions
	Millimeters
А	7.6±0.3
В	0.5±0.2
С	1.6±0.2
D	0.5±0.2
E	5.0±0.2
F	5.0±0.2



TAPE AND REEL SPECIFICATION



Ref.	Dimensions		
Ket.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
A0	5.4±0.1	0.213±0.004	
B0	8.4±0.1	0.331±0.004	
K0	5.3±0.1 0.209±0.004		
Р	12±0.1 0.472±0.004		
F	7.5±0.1	0.295±0.004	
E	1.75±0.1	0.069±0.004	
D	1.5+0.1/-0.0	0.059+0.004/-0.0	
P0	4±0.1	0.157±0.004	
P2	2±0.1	0.079±0.004	
Т	0.4±0.1	0.016±0.004	
D0	13.3±0.15	0.524±0.006	
D1	330±2	12.992±0.079	
D2	100+1/-2	3.937+0.039/-0.079	
W1	16.5±0.4	0.65±0.016	

ORDERING INFORMATION

Part Number	Size	Marking	QTY/Reel	Reel Size
SG3D05B470	5.0*5.0*7.5mm	SG3D05B470	1000PCS	13"



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By QR Code





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Machat

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